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6154559.pn. or 6120461.pn. or 5570698.pn.	3

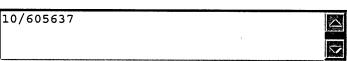
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DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

<u>L7</u> 6154559.pn. or 6120461.pn. or 5570698.pn. 3 <u>L7</u>

DB=PGPB, USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

<u>L6</u> 11 and (head with orientation).clm. 31 <u>L6</u> <u>L5</u> L3 not L4 29 L5

<u>L5</u> L3 not L4 29 <u>L5</u> <u>L4</u> L3 and 701/\$.ccls. 4 L4

<u>L3</u> L2 and (vehicle\$ or car\$ or automobile\$) 33 <u>L3</u>

 $\underline{L2}$ 11 and ((eye\$ and head\$) same orient\$) 60 $\underline{L2}$

<u>L1</u> (eye\$ and head\$ and orient\$ and driv\$).clm. 190 <u>L1</u>

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L46: Entry 1 of 3

File: DWPI

Apr 28, 2005

DERWENT-ACC-NO: 2005-401886

DERWENT-WEEK: 200541

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TITLE: <u>Unmanned</u> aerial vehicle <u>navigating</u> method, involves reading starting position of vehicle from receiver on vehicle, and piloting vehicle from starting

position to waypoint, based on <u>navigation</u> algorithm

INVENTOR: BODIN, W K; REDMAN, J J W; THORSON, D C

PATENT-ASSIGNEE: INT BUSINESS MACHINES CORP (IBMC)

PRIORITY-DATA: 2003US-0692169 (October 23, 2003)



PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 20050090972 A1

April 28, 2005

030

G01C021/00

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

US20050090972A1

October 23, 2003

2003US-0692169

INT-CL (IPC): G01C 21/00

ABSTRACTED-PUB-NO: US20050090972A

BASIC-ABSTRACT:

NOVELTY - The method involves receiving a user's selection of a <u>map pixel</u> representing a waypoint for <u>unmanned</u> aerial vehicle (<u>UAV</u>) <u>navigation</u>, at a remote control device. The <u>pixel is mapped</u> to waypoint <u>coordinates</u>, and the waypoint is transmitted to the <u>UAV</u>. A starting position of the <u>UAV</u>, is read from a GPS receiver on the <u>UAV</u>, and the <u>UAV</u> is piloted from the starting position to the waypoint, based on a <u>navigation</u> algorithm.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (A) a <u>UAV navigating</u> system comprising a global positioning system (GPS) receiver and remote control device
- (B) a computer program product for <u>navigating</u> a UAV.

USE - Used for <u>navigating</u> an <u>unmanned</u> aerial vehicle (UAV).

ADVANTAGE - The <u>UAV</u> is piloted from the starting position to the waypoint, based on

a <u>navigation</u> algorithm, hence enabling the operators to efficiently control the manual operation of the UAV.

DESCRIPTION OF DRAWING(S) - The drawing shows a flow chart for <u>navigating a UAV</u>.

ABSTRACTED-PUB-NO: US20050090972A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.4/15

DERWENT-CLASS: S02 T01 W05 W06

EPI-CODES: S02-B08G; T01-J07D3; T01-J12B; T01-S03; W05-D06G5; W05-D07D; W05-D08C;

W06-A03A5C; W06-B01B1;

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L46: Entry 2 of 3

File: DWPI

Oct 31, 2006

DERWENT-ACC-NO: 2005-401885

DERWENT-WEEK: 200672

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TITLE: <u>UAV navigating</u> method, involves calculating heading based upon starting point, waypoint coordinates and <u>navigation</u> algorithm, identifying flight control instructions on heading, and transmitting instructions to UAV

INVENTOR: BODIN, W K; REDMAN, J J W ; THORSON, D C

PATENT-ASSIGNEE: INT BUSINESS MACHINES CORP (IBMC)

PRIORITY-DATA: 2003US-0692118 (October 23, 2003)

Search Selected Search ALL Clear

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC

US 7130741 B2 October 31, 2006 000 G01C021/28

US 20050090945 A1 April 28, 2005 031 G01C021/00

APPLICATION-DATA:

PUB-NO APPL-DATE APPL-NO DESCRIPTOR

US 7130741B2 October 23, 2003 2003US-0692118 US20050090945A1 October 23, 2003 2003US-0692118

INT-CL (IPC): G01C 21/00; G01C 21/28

ABSTRACTED-PUB-NO: US20050090945A

BASIC-ABSTRACT:

NOVELTY - The method involves receiving a user`s selection of a graphical user interface $\underline{\text{map pixel}}$ in a remote control device e.g. mobile telephone (110). A heading is calculated based upon starting point received from a global position system receiver on a $\underline{\text{UAV}}$ (100), $\underline{\text{coordinates}}$ of waypoint and a $\underline{\text{navigation}}$ algorithm. Flight control instructions are identified on the heading and transmitted from the remote control device to the $\underline{\text{UAV}}$.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (A) a system for <u>navigating a UAV</u>
- (B) a computer program product for <u>navigating a UAV</u>.

USE - Used for navigating a UAV.

ADVANTAGE - The method automatically $\underline{\text{navigates the UAV}}$ with a single keystroke or mouseclick from operator.

DESCRIPTION OF DRAWING(S) - The drawing shows components of a $\underline{\text{UAV navigating}}$ system.

<u>UAV</u> 100

Workstation 104

Mobile telephone 110

Laptop computer 116

Satellites 190, 192

ABSTRACTED-PUB-NO: US20050090945A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/15

DERWENT-CLASS: S02 T01 W05 W06

EPI-CODES: S02-B08G; T01-J07D3; T01-J12B; T01-S03; W05-D06G5; W05-D07D; W05-D08C;

W06-B01B1;

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